

Total No. of Questions : 10]

SEAT No. :

P3196

[Total No. of Pages : 2

[5354]-710-D

B.E. (Semester - II)

INFORMATION TECHNOLOGY

Internet of Things (Elective - IV)

(2012 Pattern)

Time : 2½ Hours]

[Max. Marks : 70

Instructions to the candidates:

- 1) Answers Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6., Q.7 or Q.8, Q.9 or Q.10.
- 2) Neat diagrams must be drawn wherever necessary.
- 3) Figures to the right side indicate full marks.
- 4) Assume Suitable data if necessary.

- Q1)** a) What is Internet of Things? List applications of IoT. Explain in detail one application of IoT. [6]  
b) Explain in detail History & overview of IoT. [4]

OR

- Q2)** a) Explain in detail IoT Architecture with neat diagram. [6]  
b) What is need of IoT? Explain how IoT plays important role in modern technology. [4]
- Q3)** a) What is RFID? Explain RFID with neat diagram. [6]  
b) What is Scalability & Interoperability in IoT? Explain in detail. [4]

OR

- Q4)** a) What is WSN? How WSN is used in IoT? [6]  
b) What are the challenges and issues in RFID system? [4]
- Q5)** a) What is clustering? Explain in detail clustering in Internet of Things. [9]  
b) Explain in detail different design parameter of IoT. Expalin in detail 3 design parameter in detail. [9]

P.T.O.

OR

- Q6)** a) What is software agent? Explain in detail software agents for object representation in IoT. [9]  
b) Why identity management needed in Internet of Things? Explain any 2 Identity management techniques of Internet of Things. [9]
- Q7)** a) Explain in detail threat analysis, use cases & misuse cases in IoT. [10]  
b) Explain in detail non repudiation & availability of Internet of Things. [8]

OR

- Q8)** a) What is need of security in IoT? Explain in detail various security issues in IoT with examples. [10]  
b) Explain in detail IoT security tomography & layered attacker model. [8]
- Q9)** a) What is business model in IoT? Explain role of business model in IoT. [6]  
b) Explain business innovation in Internet of Things & value creation in IoT. [8]

OR

- Q10)** a) Write applications of Internet of Things for smart metering & advanced metering infrastructure. [6]  
b) How IoT is used in e-Health body area network & automotive applications? Explain in detail. [8]

